

IN THE CLAIMS:

1. (Currently Amended) A method, comprising:  
generating a real-time video signal of the video image  
by a camera sensor,

generating a real-time horizontally downscaled video  
signal using horizontal downscaling of the real-time video  
signal by the camera sensor using combining weighted pixels  
values according to a predetermined algorithm, and

generating a real-time vertically and horizontally  
downscaled video signal using vertical downscaling of the  
real-time horizontally downscaled video signal by a  
processing block,

wherein the horizontal downscaling and the vertical  
downscaling are performed separately in time.

2. (Previously Presented) The method of claim 1,  
wherein said horizontal downscaling is performed without a  
line memory and before said generating the real-time  
vertically and horizontally downscaled video signal, the  
method further comprises:

providing said real-time horizontally downscaled video  
signal from the camera sensor to the processing block  
through a camera compact port bus of the image generating  
and processing block.

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The method of claim 1,  
further comprising:

providing the real-time vertically and horizontally  
downscaled video signal indicative of the video image  
through an internal bus to a real-time viewfinder display  
and displaying said video image on the real-time viewfinder  
display.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The method of claim 1, wherein  
the image generating and processing block is a part of a  
camera-phone mobile device and the method further  
comprises:

encoding the real-time vertically and horizontally  
downscaled video signal by a video packing block of the  
image generating and processing block for generating an  
encoded video signal, and

providing said encoded video signal through a further  
internal bus to at least one of: a file/stream block and a  
phone memory of the camera-phone mobile device.

9. (Previously Presented) The method of claim 1,  
further comprising:

encoding the vertically and horizontally downscaled  
video signal by a video packing block of the image

generating and processing block for generating an encoded video signal.

10. (Currently Amended) An image generating and processing block, comprising:

a camera sensor, responsive to a video image, configured to generate a real-time video signal of the video image and further configured to generate a real-time horizontally downscaled video signal using horizontal downscaling of the real-time video signal using combining weighted pixels values according to a predetermined algorithm; and

a processing block, responsive to the real-time horizontally downscaled video signal, configured to generate a real-time vertically and horizontally downscaled video signal using vertical downscaling of the real-time horizontally downscaled video signal,

wherein the horizontal downscaling and the vertical downscaling are performed separately in time.

11. (Previously Presented) The image generating and processing block of claim 10, wherein the camera sensor comprises a camera memory.

12. (Previously Presented) The image generating and processing block of claim 10, wherein the processing block comprises a processing memory.

13. (Previously Presented) The image generating and processing block of claim 10, wherein said horizontal downscaling is performed without a line memory and the image generating and processing block further comprises:

a camera compact port bus, responsive to the real-time horizontally downscaled video signal from the camera sensor, configured to provide the real-time horizontally downscaled video signal to the processing block.

14. (Currently Amended) A camera-phone mobile device, comprising:

an image generating and processing block configured to generate a real-time vertically and horizontally downscaled video signal of a video image, and configured to encode said real-time vertically and horizontally downscaled video signal for generating an encoded video signal, wherein said real-time vertically and horizontally downscaled video signal is horizontally downscaled first and separate from vertical downscaling to provide a real-time horizontally downscaled video signal using combining weighted pixels values according to a predetermined algorithm without using a line memory; and

a real-time viewfinder display, responsive to the real-time vertically and horizontally downscaled video signal, configured to provide a display of the video image indicative by said real-time vertically and horizontally downscaled video signal.

15. (Previously Presented) The camera-phone mobile device of claim 14, further comprising:

a file/stream block, responsive to the encoded signal, configured to provide a call connection to other mobile devices; and

a phone memory, responsive to the encoded signal, configured to provide the encoded signal.

16. (Previously Presented) The camera-phone mobile device of claim 14, wherein the image generating and processing block comprises:

a camera sensor, responsive to the video image, configured to generate the real-time video signal of the video image and further configured to generate said real-time horizontally downscaled video signal using horizontal downscaling of the real-time video signal; and

a processing block, responsive to the real-time horizontally downscaled video signal, configured to generate the real-time vertically and horizontally downscaled video signal using vertical downscaling of the real-time horizontally downscaled video signal.

17. (Previously Presented) The camera-phone mobile device of claim 16, wherein the processing block is a base band engine of the camera-phone mobile device.

18. (Previously Presented) The camera-phone mobile device of claim 16, wherein the camera sensor comprises a camera memory.

19. (Previously Presented) The camera-phone mobile device of claim 16, wherein the processing block comprises a processing memory.

20. (Previously Presented) The camera-phone mobile device of claim 16, further comprising:

a camera compact port bus, responsive to the real-time horizontally downscaled video signal from the camera sensor, configured to provide the real-time horizontally downscaled video signal to the processing block.

21. (Currently Amended) A method, comprising:

generating a real-time video signal of the video image by a camera sensor; and

generating a real-time horizontally downscaled video signal using horizontal downscaling of the real-time video signal by the camera sensor using combining weighted pixels values in the same row according to a predetermined algorithm without using a line memory,

wherein the horizontal downscaling is performed separately in time from vertical downscaling.

22 (Previously Presented) The method of claim 21, further comprising:

generating a real-time vertically and horizontally downscaled video signal using vertical downscaling of the

real-time horizontally downscaled video signal by said camera sensor or by a processing block of the image generating and processing block.

23. (Previously Presented) The method of claim 22, wherein pixel color components of a downscaled image comprised in said real-time horizontally downscaled video signal have substantially equal phases.

24. (Currently Amended) An electronic device, comprising:  
a camera sensor, configured to generate a real-time video signal of the video image and further configured to generate a real-time horizontally downscaled video signal using horizontal downscaling of the real-time video signal by the camera sensor using combining weighted pixels values in the same row according to a predetermined algorithm without using a line memory,

wherein the horizontal downscaling is performed separately in time from vertical downscaling.

25. (Previously Presented) The electronic device of claim 24, wherein said camera sensor is still further configured to generate a real-time vertically and horizontally downscaled video signal using vertical downscaling of the real-time horizontally downscaled video signal.

26. (Previously Presented) The electronic device of claim 24, wherein pixel color components of a downscaled image comprised in said real-time horizontally downscaled video signal have substantially equal phases.

27. (Previously Presented) The camera-phone mobile device of claim 14, wherein the image generating and processing block comprises:

a camera sensor, responsive to the video image, configured to generate the real-time video signal of the video image and further configured to generate said real-time horizontally downscaled video signal using horizontal downscaling of the real-time video signal and is still further configured to generate a real-time vertically and horizontally downscaled video signal using vertical downscaling of the real-time horizontally downscaled video signal.

28. (Previously Presented) The method of claim 1, wherein pixel color components of a downscaled image comprised in said real-time horizontally downscaled video signal have substantially equal phases.

29. (Previously Presented) The image generating and processing block of claim 10, wherein pixel color components of a downscaled image comprised in said real-time horizontally downscaled video signal have substantially equal phases.